

## Microsoft\_CertifyMe\_70-536\_v2011-01-12\_281q\_By-Gaahl

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***Question : 281***

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***By-Gaahl***

## Exam E

### QUESTION 1

You work as a developer at Company.com. You are creating an assembly named Company1. Company1 contains a public method. The global cache contains a second assembly named Company2.

You must ensure that the public method is only called from Company2.

Which permission class should you use?

- A. GacIdentityPermission
- B. PublisherIdentityPermission
- C. DataProtectionPermission
- D. **StrongNameIdentityPermission**

**Answer:** D

**Section:** (none)

**Explanation/Reference:**

### QUESTION 2

You develop a service application named PollingService that periodically calls long-running procedures. These procedures are called from the DoWork method. You use the following service application code:

```
partial class PollingService : ServiceBase
{
    bool blnExit = false;
    public PollingService() {}
    protected override void OnStart(string[] args)
    {
        do
        {
            DoWork();
        } while (!blnExit);
    }
    protected override void OnStop()
    {
        blnExit = true;
    }
    private void DoWork() { ...}
}
```

When you attempt to start the service, you receive the following error message: Could not start the PollingService service on the local computer. Error 1053: The service did not respond to the start or control request in a timely fashion. You need to modify the service application code so that the service starts properly. What should you do?

- A. Move the loop code into the constructor of the service class from the OnStart method.
- B. Drag a timer component onto the design surface of the service. Move the calls to the longrunning procedure from the OnStart method into the Tick event procedure of the timer, set the Enabled property of the timer to True, and call the Start method of the timer in the OnStart method.
- C. **Add a class-level System.Timers.Timer** variable to the service class code. Move the call to the DoWork method into the Elapsed event procedure of the timer, set the Enabled property of the timer to True, and call the Start method of the timer in the OnStart method.

D. Move the loop code from the OnStart method into the DoWork method.

**Answer:** C

**Section:** (none)

**Explanation/Reference:**

### QUESTION 3

You work as a developer at Company.com. You create a service application that monitors free space on a hard disk drive. You must ensure that the service application runs in the background and monitors the free space every minute.

What should you do?

Actions, select from these	Actions, place here
Add code to the default constructor of the Service class to monitor the free space on the hard disk drive.	<i>Place first, if any, here</i>
Add code to the OnStart method of the Service class to monitor the free space on the hard disk drive.	<i>Place second, if any, here</i>
Add an instance of the System.Windows.Forms.Timer class to the Service class and configure it to fire every minute.	<i>Place third, if any, here</i>
Add an instance of the System.Timers.Timer class to the Service class and configure it to fire every minute.	<i>Place fourth, if any, here</i>
Add code to the OnStart method of the Service class to start the timer.	<i>Place fifth, if any, here</i>
Add code to the Elapsed event handler of the timer to monitor the free space on the hard disk drive.	<i>Place sixth, if any, here</i>
Add code to the Tick event handler of the timer to monitor the free space on the hard disk drive.	<i>Place 7th, if any, here</i>

**Answer:**

Actions, select from these	Actions, place here
Add code to the default constructor of the Service class to monitor the free space on the hard disk drive.	Add an instance of the System.Timers.Timer class to the Service class and configure it to fire every minute.
Add code to the OnStart method of the Service class to monitor the free space on the hard disk drive.	Add code to the OnStart method of the Service class to start the timer.
Add an instance of the System.Windows.Forms.Timer class to the Service class and configure it to fire every minute.	Add code to the Elapsed event handler of the timer to monitor the free space on the hard disk drive.
	Place fourth, if any, here
	Place fifth, if any, here
	Place sixth, if any, here
Add code to the Tick event handler of the timer to monitor the free space on the hard disk drive.	Place 7th, if any, here

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 4

You are creating an application that retrieves values from a custom section of the application configuration file. The custom section uses XML as shown in the following block.

```
<ProjectSection name="ProjectCompany">
  <role name="administrator" />
  <role name="manager" />
  <role name="support" />
</ProjectSection>
```

You need to write a code segment to define a class named Role. You need to ensure that the Role class is initialized with values that are retrieved from the custom section of the configuration file. Which code segment should you use?

A. 

```
public class Role : ConfigurationElement
{
    internal string ElementName = "name";
    [ConfigurationProperty("role")]
    public string Name
    {
        get { return ((string)base["role"]); }
    }
}
```

```

B. public class Role : ConfigurationElement
{
    internal string ElementName = "role";
    [ConfigurationProperty("name", RequiredValue = true)]
    public string Name
    {
        get { return ((string)base["name"]); }
    }
}

C. public class Role : ConfigurationElement
{
    internal string ElementName = "role";
    private String name;
    [ConfigurationProperty("name")]
    public string Name
    {
        get { return name; }
    }
}

D. public class Role : ConfigurationElement
{
    internal string ElementName = "name";
    private String name;
    [ConfigurationProperty("role", RequiredValue = true)]
    public string Name
    {
        get { return name; }
    }
}

```

**Answer: B**

**Section: (none)**

**Explanation/Reference:**

### QUESTION 5

You work as a developer at Company.com. You are creating an application that provides information about the local computer. The application contains a form that lists each logical drive with the drive properties, such as type, volume label, and capacity. You are required to write a procedure that retrieves properties of each logical drive on the local computer. What should you do? Arrange the appropriate actions in the correct order.

Actions, select from these	Actions, place here
Retrieve an instance of the FileSystemInfo class.	<i>Place first, if any, here</i>
Retrieve an instance of the DriveInfo class.	<i>Place second, if any, here</i>
Retrieve the drive capacity by using the DriveInfo TotalSize property.	<i>Place third, if any, here</i>
Determine if the drive is available by using the FileSystemInfo Attributes property.	<i>Place fourth, if any, here</i>
Retrieve the drive names of all logical drives on a computer by using the DriveInfo.GetDrives method.	<i>Place fifth, if any, here</i>
Retrieve the drive capacity by using the FileSystemInfo Attributes property.	<i>Place sixth, if any, here</i>

Answer:

Actions, select from these	Actions, place here
Retrieve an instance of the FileSystemInfo class.	Retrieve the drive names of all logical drives on a computer by using the DriveInfo.GetDrives method.
	Retrieve an instance of the DriveInfo class.
	Retrieve the drive capacity by using the DriveInfo.TotalSize property.
Determine if the drive is available by using the FileSystemInfo.Attributes property.	<i>Place fourth, if any, here</i>
	<i>Place fifth, if any, here</i>
Retrieve the drive capacity by using the FileSystemInfo.Attributes property.	<i>Place sixth, if any, here</i>

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 6

You are developing a method to call a COM component. You need to use declarative security to explicitly request the runtime to perform a full stack walk. You must ensure that all callers have the required level of trust for COM interop before the callers execute your method. Which attribute should you place on the method?

- A. [SecurityPermission (SecurityAction.Demand, Flags=SecurityPermissionFlag.UnmanagedCode) ]
- B. [SecurityPermission (SecurityAction.LinkDemand, Flags=SecurityPermissionFlag.UnmanagedCode) ]
- C. [SecurityPermission (SecurityAction.Assert, Flags = SecurityPermissionFlag.UnmanagedCode) ]
- D. [SecurityPermission (SecurityAction.Deny, Flags = SecurityPermissionFlag.UnmanagedCode) ]

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 7

You write the following custom exception class named CustomException.

```
public class CustomException : ApplicationException
{
    public static int COR_E_ARGUMENT = unchecked((int)0x80070057);
    public CustomException(String msg) : base(msg)
    {
        HRESULT = COR_E_ARGUMENT;
    }
}
```

You need to write a code segment that will use the CustomException class to immediately return control to the COM caller. You also need to ensure that the caller has access to the error code. Which code segment should you use?

- A. return Marshal.GetExceptionForHR(CustomException.COR\_E\_ARGUMENT);
- B. return CustomException.COR\_E\_ARGUMENT;
- C. Marshal.ThrowExceptionForHR(CustomException.COR\_E\_ARGUMENT);
- D. throw new CustomException("Argument is out of bounds");

**Answer:** D

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 8

You work as a developer at Company.com. You are developing an application to create a new file on the local

file system. You need to define specific security settings for the file. You must deny the file inheritance of any default security settings. What should you do?

Actions, select from these	Actions, place here
Create the file by using a new FileStream object by passing the FileSecurity object as a parameter to the FileStream constructor.	Place first, if any, here
Create a new FileSecurity object.	Place second, if any, here
Apply the permissions by using the File class.	Place third, if any, here
Create a new FileSystemAccessRule object for each permission that you need, and add each rule to the FileSecurity object.	Place fourth, if any, here
Create a new FileSystemAuditRule object and add it to the FileSecurity object.	Place fifth, if any, here

Answer:

Actions, select from these	Actions, place here
	Create a new FileSecurity object.
	Create a new FileSystemAccessRule object for each permission that you need, and add each rule to the FileSecurity object.
Apply the permissions by using the File class.	Create the file by using a new FileStream object by passing the FileSecurity object as a parameter to the FileStream constructor.
	Place fourth, if any, here
Create a new FileSystemAuditRule object and add it to the FileSecurity object.	Place fifth, if any, here

Section: (none)

Explanation/Reference:

#### QUESTION 9

You are creating a class named Age. You need to ensure that the Age class is written such that collections of Age objects can be sorted. Which code segment should you use?



- A. 

```
public class Age
{
    public int Value;
    public object CompareTo(object obj)
    {
        if (obj is Age)
        {
            Age age = (Age) obj;
            return Value.CompareTo(obj);
        }
        throw new ArgumentException("object not an Age");
    }
}
```
- B. 

```
public class Age
{
    public int Value;
    public object CompareTo(int iValue)
    {
        try { return Value.CompareTo(iValue); }
        catch { throw new ArgumentException("object not an Age"); }
    }
}
```
- C. 

```
public class Age : IComparable
{
    public int Value;
    public int CompareTo(object obj)
    {
        if (obj is Age)
        {
            Age age = (Age) obj;
            return Value.CompareTo(age.Value);
        }
        throw new ArgumentException("object not an Age");
    }
}
```
- D. 

```
public class Age : IComparable
{
    public int Value;
    public int CompareTo(object obj)
    {
        try { return Value.CompareTo(((Age) obj).Value); }
        catch { return -1; }
    }
}
```

**Answer: C**

**Section: (none)**

**Explanation/Reference:**

#### QUESTION 10

You are developing an assembly to access file system. Need to write a segment code to configure CLR stop loading the assembly if file permission is absent.

- A. `[FileIOPermission(SecurityAction.RequestOptional, AllLocalFiles = FileIOPermissionAccess.Read)]`
- B. `[FileIOPermission(SecurityAction.RequestMinimum, AllFiles = FileIOPermissionAccess.Read)]`

- C. [FileIOPermission(SecurityAction.RequestRefuse, AllFiles = FileIOPermissionAccess.Read)]
- D. [FileIOPermission(SecurityAction.RequestOptional, AllFiles = FileIOPermissionAccess.Read)]

**Answer:** B

**Section:** (none)

**Explanation/Reference:**

### QUESTION 11

Given the code like this:

```
while(!loop)
{
    //Thread code here
    DoWork();
}
```

You need to write more code to class to run DoWork() with 30-second intervals using minimum resources

- A. **Thread.Sleep**(30000)
- B. Thread.SpinWait(30000)
- C. Thread.QueueUserWorkItem(30000)
- D. Thread.SpinWait(30)

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

### QUESTION 12

You are developing an application that will deploy by using ClickOnce. You need to test if the application executes properly. You need to write a method that returns the object, which prompts the user to install a ClickOnce application. Which code segment should you use?

- A. return **ApplicationSecurityManager**.ApplicationTrustManager;
- B. return AppDomain.CurrentDomain.ApplicationTrust;
- C. return new HostSecurityManager();
- D. return SecurityManager.PolicyHierarchy();

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

### QUESTION 13

You create a DirectorySecurity object for the working directory.

You need to identify the user accounts and groups that have read and write permissions.

Which method should you use on the DirectorySecurity object?

- A. the GetAuditRules method
- B. the **GetAccessRules** method
- C. the AccessRuleFactory method
- D. the AuditRuleFactory method

**Answer:** B

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 14

You are developing an auditing application to display the trusted ClickOnce applications that are installed on a computer.

You need the auditing application to display the origin of each trusted application.

Which code segment should you use?

- A. 

```
ApplicationTrustCollection trusts;
trusts = ApplicationSecurityManager.UserApplicationTrusts;
foreach (ApplicationTrust trust in trusts)
{
    Console.WriteLine(trust.ToString());
}
```
- B. 

```
ApplicationTrustCollection trusts;
trusts = ApplicationSecurityManager.UserApplicationTrusts;
foreach (ApplicationTrust trust in trusts)
{
    Console.WriteLine(trust.ExtraInfo.ToString());
}
```
- C. 

```
ApplicationTrustCollection trusts;
trusts = ApplicationSecurityManager.UserApplicationTrusts;
foreach (ApplicationTrust trust in trusts)
{
    Console.WriteLine(trust.ApplicationIdentity.FullName);
}
```
- D. 

```
ApplicationTrustCollection trusts;
trusts = ApplicationSecurityManager.UserApplicationTrusts;
foreach (object trust in trusts)
{
    Console.WriteLine(trust.ToString());
}
```

**Answer:** C

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 15

You are developing an application that stores data about your company's sales and technical support teams.

You need to ensure that the name and contact information for each person is available as a single collection when a user queries details about a specific team.

You also need to ensure that the data collection guarantees type safety.

Which code segment should you use?

- A. `Hashtable team = new Hashtable();`  
`team.Add(1, "Hance");`  
`team.Add(2, "Jim");`  
`team.Add(3, "Hanif");`  
`team.Add(4, "Kerim");`  
`team.Add(5, "Alex");`  
`team.Add(6, "Mark");`  
`team.Add(7, "Roger");`  
`team.Add(8, "Tommy");`
- B. `ArrayList team = new ArrayList();`  
`team.Add("1, Hance");`  
`team.Add("2, Jim");`  
`team.Add("3, Hanif");`  
`team.Add("4, Kerim");`  
`team.Add("5, Alex");`  
`team.Add("6, Mark");`  
`team.Add("7, Roger");`  
`team.Add("8, Tommy");`
- C. `Dictionary<int, string> team = new Dictionary<int, string>();`  
`team.Add(1, "Hance");`  
`team.Add(2, "Jim");`  
`team.Add(3, "Hanif");`  
`team.Add(4, "Kerim");`  
`team.Add(5, "Alex");`  
`team.Add(6, "Mark");`  
`team.Add(7, "Roger");`  
`team.Add(8, "Tommy");`
- D. `string[] team = new string[] { "1, Hance", "2, Jim", "3, Hanif", "4, Kerim", "5, Alex", "6, Mark", "7, Roger", "8, Tommy" };`

**Answer: C**

**Section: (none)**

**Explanation/Reference:**

## QUESTION 16

You create Microsoft Windows-based applications.

You create an application that requires users to be authenticated by a domain controller.

The application contains a series of processor intensive method calls that require different database connections.

A bug is reported during testing.

The bug description states that the application hangs during one of the processor-intensive calls more than 50 percent of the times when the method is executed.

Your unit test for the same method was successful.

You need to reproduce the bug.

Which two factors should you ascertain from the tester? (Each correct answer presents part of the solution. Choose two.)

- A. Security credentials of the logged on user
- B. Code access security settings
- C. Hardware settings
- D. **Network** settings

E. **Database** settings

**Answer:** DE

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 17

You are a Web developer for Contonso. You are creating an online inventory Web site to be used by employees in Germany and the United States.

When a user selects a specific item from the inventory, the site needs to display the cost of the item in both United States currency and German currency.

The cost must be displayed appropriately for each locale.

You want to create a function to perform this task.

Which code should you use?

- A. 

```
private string CKGetDisplayValue(double value,string inputRegion)
{
    string display;
    RegionInfo region;
    region = new RegionInfo(inputRegion);
    display = value.ToString("C");
    display += region.CurrencySymbol;
    return display;
}
```
- B. 

```
private string CKGetDisplayValue(double value,string inputCulture)
{
    string display;
    NumberFormatInfo LocalFormat = (NumberFormatInfo)NumberFormatInfo.CurrentInfo.
    Clone();
    display = value.ToString("C", LocalFormat);
    return display;
}
```
- C. 

```
private string CKGetDisplayValue(double value,string inputRegion)
{
    string display;
    RegionInfo region;
    region = new RegionInfo(inputRegion);
    display = value.ToString("C");
    display += region.ISOCurrencySymbol;
    return display;
}
```
- D. 

```
private string CKGetDisplayValue(double value, string inputCulture)
{
    string display;
    CultureInfo culture;
    culture = new CultureInfo(inputCulture);
    display = value.ToString("C", culture);
    return display;
}
```

**Answer:** D

**Section:** (none)

**Explanation/Reference:**

**Explanation:** We create a new CultureInfo object based on the inputCulture parameter. We then produce the result with "C" constant, representing the current culture, and the new CultureInfo object: display = value.ToString("C", culture)

Note: The CultureInfo Class contains culture-specific information, such as the language, country/region, calendar, and cultural conventions associated with a specific culture. This class also provides the information required for performing culture-specific operations, such as casing, formatting dates and numbers, and comparing strings.

**Incorrect Answers**

B: The NumberFormatInfo class defines how currency, decimal separators, and other numeric symbols are formatted and displayed based on culture. However, we should create a CultureInfo object, not a NumberFormatInfo object).

A, C: We should use the CultureInfo class not the RegionInfo class.

Note: In contrast to CultureInfo, RegionInfo does not represent preferences of the user and does not depend on the user's language or culture.

**QUESTION 18**

You work as the application developer at Hi-Tech.com. You create a new custom dictionary named MyDictionary.

Choose the code segment which will ensure that MyDictionary is type safe?

- A. Class MyDictionary Implements Dictionary (Of String,String)
- B. Class MyDictionary Inherits Hashtable
- C. Class MyDictionary Implements IDictionary
- D. Class MyDictionary  
End Class  
~~Dim t as New Dictionary (Of String, String)~~  
~~Dim dict As MyDictionary= CType (t,MyDictionary)~~

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

**QUESTION 19**

What kind of object does the generic Dictionary enumerator return?

- A. Object
- B. Generic KeyValuePair object
- C. Key
- D. Value

**Answer:** B

**Section:** (none)

**Explanation/Reference:**

**QUESTION 20**

Which event would you use to run a method immediately before deserialization occurs?

- A. OnSerializing

- B. OnDeserializing
- C. OnSerialized
- D. OnDeserialized

**Answer:** B

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 21

You work as the application developer at Cert-Tech.com. Cert-Tech.com uses Visual Studio.Net 2005 as its application development platform. You use a Windows XP Professional client computer named Client01 as your development computer.

You are developing a .Net Framework 2.0 application on Client01. You write the code shown below:

```
Public Class Shape
```

```
Private shapeName as String
```

```
Public Sub Shape(ByVal shapeName as String)
```

```
Me.shapename=shapeName
```

```
End Sub
```

```
Public Overridable Fuction GetName() As String
```

```
Return shapeName
```

```
End Function
```

```
Private Sub DrawShape()
```

```
'Additional code goes here
```

```
End Sub
```

```
End Class
```

You later decide to have the application compiled and registered for COM interoperability. The other developers on your team complaining that they are unable to create an instance of the Shape class in their COM applications. You are required to ensure that COM applications are able to create an instance of the Shape class.

What should you do?

- A. The following code should be added to the Shape class:

```
Public Sub New()
```

```
End Sub
```

- B. The following ComVisible attribute to the Shape class:

```
<ComVisible(True)>
```

- C. The definition of the GetName method should be modified as below:

```
Public Function GetName() As String
```

```
Return shapename
```

```
End Function
```

- D. The folloeing ComVisible attribute should be added to each method of the Shape class:

```
<ComVisible(True)>
```

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

### QUESTION 22

You deploy several .NET-connected applications to a shared folder on your company network. Your applications require full trust to execute correctly. Users report that they receive security exceptions when they attempt to run the applications on their computers. You need to ensure that the applications on the users computers run with full trust. What should you do?

- A. Apply a string name to the applications by using the Strong Name tool (Sn.exe)
- B. Use the security settings of internet explorer to add the shared folder to the list of trusted sites
- C. Use the Code Access Security Policy tool (Caspol.exe) to add a new code group that has the full trust permission set. The new code group must also contain a URL membership condition that specifies the URL of the shared folder where your application reside
- D. Grant the full trust permission set to the Trusted Zone code group by using the Code Access Security Policy Tool (Caspol.exe)

**Answer:** C

**Section:** (none)

**Explanation/Reference:**

### QUESTION 23

Which methods allow COM components to be used in .NET applications? (Choose all that apply.)

- A. Add a reference to the component through Microsoft Visual Studio 2005.
- B. Use the type Library Import tool (TlbImport.exe).
- C. Use the Regsvr32 tool.
- D. Ensure that the application is registered, using the RegSvr tool if necessary. Then either add a reference to it from the COM tab of the Add Reference dialog box or use TlbImp.exe.

**Answer:** ABD

**Section:** (none)

**Explanation/Reference:**

### QUESTION 24

What types of objects derive from the MemberInfo class? (Choose all that apply.)

- A. FieldInfo class
- B. MethodInfo class
- C. Assembly class
- D. Type class

**Answer:** ABD

**Section:** (none)

**Explanation/Reference:**

### QUESTION 25



When compressing data with the DeflateStream class, how do you specify a stream into which to write compressed data?

- A. Set the BaseStream property with the destination stream, and set the CompressionMode property to Compression.
- B. Specify the stream to write into the **DeflateStream object is created** (for example, in the **constructor**).
- C. Use the Write method of the DeflateStream class.
- D. Register for the BaseStream event of the DeflateStream class.

**Answer:** B

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 26

Where can you add to a LinkedList? (Choose all that apply)

- A. **At the beginning** of the LinkedList
- B. **Before** any specific node
- C. **After** any specific node
- D. **At the end** of the LinkedList
- E. At any numeric index in the LinkedList

**Answer:** ABCD

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 27

Which event would you use to run a method immediately **after serialization** occurs?

- A. OnSerializing
- B. OnDeserializing
- C. **OnSerialized**
- D. OnDeserialized

**Answer:** C

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 28

You need to write a code segment that will add a string named strConn to the connection string section of the application configuration file. Which code segment should you use?

- A. **Configuration myConfig = ConfigurationManager.OpenExeConfiguration( ConfigurationUserLevel.None);**  
**myConfig.ConnectionStrings.ConnectionStrings.Add( new ConnectionStringSettings("ConnStr1", strConn));**  
**myConfig.Save();**

- B. Configuration myConfig =ConfigurationManager.OpenExeConfiguration( ConfigurationUserLevel.None);  
myConfig.ConnectionStrings.ConnectionStrings.Add( new ConnectionStringSettings("ConnStr1",strConn));  
ConfigurationManager.RefreshSection( "ConnectionStrings");
- C. ConfigurationManager.ConnectionStrings.Add( new ConnectionStringSettings("ConnStr1",strConn));  
ConfigurationManager.RefreshSection( "ConnectionStrings");
- D. ConfigurationManager.ConnectionStrings.Add( new ConnectionStringSettings("ConnStr1",strConn));  
Configuration myConfig = ConfigurationManager.OpenExeConfiguration( ConfigurationUserLevel.None);  
myConfig.Save();

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

### QUESTION 29

You are developing an application that uses role-based security. The principal policy of the application domain is configured during startup with the following code:

```
AppDomain.CurrentDomain.SetPrincipalPolicy(PrincipalPolicy.WindowsPrincipal);
```

You need to restrict access to one of the methods in your application so that only members of the local Administrators group can call the method.

Which attribute should you place on the method?

- A. [PrincipalPermission (SecurityAction.Demand, Name = @"BUILTIN\Administrators")]
- B. [PrincipalPermission (SecurityAction.Demand, Role = @"BUILTIN\Administrators")]
- C. [PrincipalPermission (SecurityAction.Assert, Name = @"BUILTIN\Administrators")]
- D. [PrincipalPermission (SecurityAction.Assert, Role = @"BUILTIN\Administrators")]

**Answer:** B

**Section:** (none)

**Explanation/Reference:**


### QUESTION 30

You work as the application developer at Cer-Tech.com. Cer-Tech.com uses Visual Studio.NET 2005 as its application development platform. You are developing a .NET Framework 2.0 text manipulation application. You make use of the code below in your application:

```
Dim ckBuilder As StringBuilder = New StringBuilder (~:string:~)
Dim b() As Char = {"a"c, "b"c, "c"c, "d"c, "e"c, "f"c, "g"c}
Dim ckWriter As StringWriter = New StringWriter (ckBuilder)
ckWriter.Write (b, 0, 3)
Console.WriteLine (ckBuilder)
ckWriter.Close ()
```

You are required to select from the following what the output will be when you execute the application.

What should you do?

- A. string:abcdefg
- B. abc:string
- C. abcstring
- D. string:abc** 

**Answer:** D

**Section:** (none)

**Explanation/Reference:**

**QUESTION 31**

Which class would you use to programmatically access the connection strings stored in the following configuration file?

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
<connectionStrings>
  <clear/>
  <add name="AdventureWorksString"
    providerName="System.Data.SqlClient"
    connectionString="Data Source=localhost;Initial Catalog=AdventureWorks; Integrated Security=true"/>
  <add name="MarsEnabledSqlServer2005String"
    providerName="System.Data.SqlClient"
    connectionString="Server=Aron1;Database=pubs;Trusted_Connection=True;MultipleActiveResultSets=true" />
  <add name="OdbcConnectionString"
    providerName="System.Data.Odbc"
    connectionString="Driver={Microsoft Access Driver (*.mdb)};Dbq=C:\adatabase.mdb;Uid=Admin;Pwd=R3m3mberT0UseStrongPasswords;"/>
</connectionStrings>
</configuration>
```

- A. ConfigurationManager.ConnectionStrings
- B. ConfigurationProperty.ConnectionStrings
- C. ConfigurationSettings.ConnectionStrings
- D. ConfigurationSection.ConnectionStrings

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

Use ConfigurationManager.ConnectionStrings to access database connection strings.

ConfigurationSettings is obsolete.

ConfigurationSection does not have a ConnectionStrings property.

ConfigurationProperty does not have a ConnectionStrings property.

**QUESTION 32**

Which of the following commands adds the App.exe assembly to the full trust list for the machine policy?

- A. Caspol -machine -addfulltrust App.exe
- B. Caspol -machine -addgroup Full\_Trust App.exe
- C. Caspol -user -addfulltrust App.exe
- D. Caspol -user -addgroup Full\_Trust App.exe

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

the -machine and -addfulltrust arguments with the Caspol.exe command-line tool to add an assembly to the full trust list for the machine policy.

-user argument adds the assembly to the user full trust list, not the machine full trust list.

cannot use the -addgroup argument to add an assembly to the full trust list.

### QUESTION 33

You are creating a class that responds to serialization events. Which of the following classes will trigger the serialization events?

- A. BinaryFormatter
- B. SoapFormatter
- C. XmlSerializer
- D. IFormatter

**Answer:** A

**Section:** (none)

#### Explanation/Reference:

Only the BinaryFormatter class supports serialization events.

The SoapFormatter class does not support serialization events.

XMLSerializer does not support serialization events.

IFormatter is an interface and cannot be directly used to perform serialization.

### QUESTION 34

You are writing an application that communicates with a database. The connection string is stored in the application configuration file. Which of the following string?

- A. 

```
'VB
ConfigurationManager.ConnectionStrings.ConnectionString

// C#
ConfigurationManager.ConnectionStrings.ConnectionString
```
- B. 

```
'VB
ConfigurationSettings.ConnectionStrings.ConnectionString

// C#
ConfigurationSettings.ConnectionStrings.ConnectionString
```
- C. 

```
'VB
ConfigurationManager.ConnectionStrings(0).ConnectionString

// C#
ConfigurationManager.ConnectionStrings[0].ConnectionString
```
- D. 

```
'VB
ConfigurationSettings.ConnectionStrings(0).ConnectionString

// C#
ConfigurationSettings.ConnectionStrings[0].ConnectionString
```

**Answer:** C

**Section:** (none)

## Explanation/Reference:

ConfigurationManager.ConnectionStrings is a collection of type ConnectionStringSettingsCollection that contains the connection strings loaded from the application configuration file. If you have a collection, you must access it using an index. ConfigurationSettings, which is obsolete, does not contain a ConnectionStrings property.

Exam Objective:

Embedding configuration, diagnostic, management, and installation features into a .NET Framework application

Exam SubObjective(s):

Embed configuration management functionality into a .NET Framework application. (Refer System.Configuration namespace) Configuration class and ConfigurationManager

## QUESTION 35

Which of the following configuration files correctly defines the information required to connect to a database by defining the first element of ConfigurationManager.ConnectionStrings? (Refer other configuration files that might exist?)

- A. `<?xmlversion="1.0" encoding="utf-8"?>`  
`<configuration>`  
`<connectionStrings>`  
`<clear/>`  
`<add name="System.Data.SqlClient"`  
`providerName="AdventureWorksString"`  
`connectionString="Data Source=localhost;Initial Catalog=AdventureWorks;`  
`Integrated Security=true"/>`  
`</connectionStrings>`  
`</configuration>`
- B. `<?xmlversion="1.0" encoding="utf-8"?>`  
`<configuration>`  
`<connectionStrings>`  
`<add name="System.Data.SqlClient"`  
`providerName="AdventureWorksString"`  
`connectionString="Data Source=localhost;Initial Catalog=AdventureWorks;`  
`Integrated Security=true"/>`  
`</connectionStrings>`  
`</configuration>`
- C. `<?xmlversion="1.0" encoding="utf-8"?>`  
`<configuration>`  
`<connectionStrings>`  
`<add name="AdventureWorksString"`  
`providerName="System.Data.SqlClient"`  
`connectionString="Data Source=localhost;Initial Catalog=AdventureWorks;`  
`Integrated Security=true"/>`  
`</connectionStrings>`  
`</configuration>`
- D. `<?xmlversion="1.0" encoding="utf-8"?>`  
`<configuration>`  
`<connectionStrings>`  
`<clear/>`  
`<add name="AdventureWorksString"`  
`providerName="System.Data.SqlClient"`  
`connectionString="Data Source=localhost;Initial Catalog=AdventureWorks;`  
`Integrated Security=true"/>`  
`</connectionStrings>`  
`</configuration>`

**Answer: D**

**Section: (none)**

**Explanation/Reference:**

To define the first element of `ConfigurationManager.ConnectionStrings`, you must include the `<clear/>` element, which removes any existing `<connectionString>` elements. The `providerName` attribute to the database type, such as `System.Data.SqlClient`. The `Name` element is a friendly name used to refer to that specific connection string.

Exam Objective:

Embedding configuration, diagnostic, management, and installation features into a .NET Framework application

Exam SubObjective(s):

Embed configuration management functionality into a .NET Framework application. (Refer `System.Configuration` namespace) `Configuration` class and `ConfigurationManager` class

**QUESTION 36**

You are writing a multithreaded application, and multiple threads need to read and write the same file. At times, a thread will need to read from the file, and the most efficient way to handle this in the thread?

- A. 1. Create a `ReaderWriterLock` object, and call `ReaderWriterLock.AcquireReadLock`.  
2. Perform the reads.  
3. Call `ReaderWriterLock.UpgradeToWriterLock`, and perform the writes.
- B. 1. Create a `ReaderWriterLock` object, and call `ReaderWriterLock.AcquireReadLock`.  
2. Perform the reads.  
3. Call `ReaderWriterLock.ReleaseReaderLock`.  
4. Call `ReaderWriterLock.AcquireWriteLock`, and perform both the writes.
- C. 1. Create a `ReaderWriterLock` object, and call `ReaderWriterLock.AcquireReadLock`.  
2. Perform the reads.  
3. Call `ReaderWriterLock.ReleaseLock`.  
4. Call `ReaderWriterLock.AcquireWriteLock`, and perform both the writes.
- D. 1. Create a `ReaderWriterLock` object, and call `ReaderWriterLock.AcquireWriteLock`.  
2. Perform both the reads and the writes.

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

The most efficient way to switch from a read lock to a write lock is to call `ReaderWriterLock.UpgradeToWriterLock`.

You cannot read when you have a write lock.

Although you can release a read lock and acquire a write lock, it is not as efficient as using `UpgradeToWriterLock`.

**QUESTION 37**

---

You work as the application developer at Cer-Tech.com. You make use of Visual Studio 2005 as your application development platform.

You are developing a .NET Framework 2.0 application and write the code below as your own code:

```
Public Class Book
Public Name As String
End Class
Public Class Library
<XmlArray("ID1")> _
<XmlArrayItem("ID2")> _
Public Book As Book()
End Class
```

You are required to create an object of the Library type and serialize it to disk in a file named Certkiller books.xml and write the following code:

```
Dim books As Book() = New Book() {New Book(), New Book(), New Book()}
books(0).Name = "Book Name 1"
books(1).Name = "Book Name 2"
books(2).Name = "Book Name 3"
Dim library As Library = New Library()
library.Books = books
Dim ckSerializer As XmlSerializer = New XmlSerializer(GetType(library))
Using ckWriter As StreamWriter = New StreamWriter(" Certkiller books.xml")
ckSerializer.Serialize(ckWriter, library)
End Using
```

You are required to choose from the following selection which output will be generated by the program.

What should you do?



A.     <Library>  
      <ID1>  
      <Book>  
      <ID2>Book Name 1</ID2>  
      </Book>  
      <Book>  
      <ID2>Book Name 2</ID2>  
      </Book>  
      <Book>  
      <ID2>Book Name 3</ID2>  
      </Book>  
      </ID1>  
      </Library>

B.     <Library>  
      <Books>  
      <ID1>  
      <ID2>Book Name 1</ID2>  
      </ID1>  
      <ID1>  
      <ID2>Book Name 2</ID2>  
      </ID1>  
      <ID1>  
      <ID2>Book Name 3</ID2>  
      </ID1>  
      </Books>  
      </Library>

C.     <Library>  
      <ID2>  
      <ID1>  
      <Name>Book Name 1</Name>  
      </ID1>  
      <ID1>  
      <Name>Book Name 2</Name>  
      </ID1>  
      <ID1>  
      <Name>Book Name 3</Name>  
      </ID1>  
      </ID2>  
      </Library>

D.     <Library>  
      <ID1>  
      <ID2>  
      <Name>Book Name 1</Name>  
      </ID2>  
  
      <ID2>  
      <Name>Book Name 2</Name>  
      </ID2>  
      <ID2>  
      <Name>Book Name 3</Name>  
      </ID2>  
      </ID1>  
      </Library>

**Answer:** D

**Section:** (none)

**Explanation/Reference:**

**QUESTION 38**

You work as an application developer at Cer-Tech.com. The Cer-Tech.com network contains an application server named Server01.

You have been asked to profile a business application that can be accessible using the Event Log API. You want to achieve this by creating a custom event log on Server01.

What should you do?

- A.     Use the following code:  
EventLog.CreateEventSource ("Application1", "Profile", "Server01");
- B.     Use the following code:  
EventLog.CreateEventSource ("Application1", "Profile");
- C.     Use the following code:  
EventSourceCreationData sourceData = new EventSourceCreationData  
("Application1", "Profile");  
sourceData.MachineName = "Server01";  
EventLog.CreateEventSource (sourceData);
- D.     Use the following code:  
EventSourceCreationData sourceData = new EventSourceCreationData  
("Application1", "Profile");  
EventLog.CreateEventSource (sourceData);

**Answer:** C

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 39

You need to notify the user if your assembly is running without the ability to use HTTP to download assemblies. How can you determine whether you have that permission?

- A.     Examine AppDomain.CurrentDomain.SetupInformation.DisallowCodeDownload.
- B.     Examine AppDomain.CurrentDomain.DisallowCodeDownload.
- C.     Examine AppDomain.CurrentDomain.SetupInformation.DisallowPublisherPolicy.
- D.     Examine AppDomain.CurrentDomain.DisallowPublisherPolicy.

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

**QUESTION 40**

Which method is appropriate to specify a password when starting a process?

- A. Use a String variable that contains the password.
- B. Use an Array of type Char
- C. Use an Array of type String coupled with an Integer reference to the password's index in the array.
- D.** Use a SecureString object.

**Answer:** D

**Section:** (none)

**Explanation/Reference:**

**QUESTION 41**

You work as the application developer at Cer-Tech.com. Cer-Tech.com uses Visual Studio.NET 2005 as its application development platform. You are developing a .NET Framework 2.0 application and are busy creating a default instance of the Rijndael symmetric algorithm class and configure it with a key that is generated from a password. The following code you wrote, line numbers are for reference only:

```
01: Dim dub1 As Double = 0
02: Dim salt(16) As Byte
03: Dim pwdDeBytes As PasswordDeriveBytes = New PasswordDeriveBytes (pwd, salt)
04: Dim key As Byte() = pwdDeBytes.GetBytes(16)
05: Dim cryptoRij As Rijndael = Rijndael.Create ()
06: cryptoRij.Key = key
```

The variable that is named salt acts as a seed to the key derivation algorithm. You are required to insert additional code before line 03 that stores a random number in the salt variable.

What code segment should you add?

- A. 

```
Dim rNum As RandomNumberGenerator = RandomNumberGenerator.Create ()
rNum.GetBytes (salt)
```
- B. 

```
Dim ckGuid as Guid = New Guid ()
salt = ckGuid.ToArray()
```
- C. 

```
Dim enc as Encoding = New ASCIIEncoding ()
salt = enc.GetBytes(DateTime.Now.ToString())
```
- D. 

```
Dim rNum as Random = New Random ()
rNum.NextBytes (salt)
```

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

**QUESTION 42**

You are creating a generic class, and you need to dispose of the generic objects.  
How can you do this?

- A. Call the `Object.Dispose` method.
- B. Implement the `IDisposable` interface.
- C. Derive the generic class from the `IDisposable` class.
- D. Use constraints to require the generic type to implement the `IDisposable` interface.

**Answer:** D

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 43

What values of the `AssemblyBuilderAccess` enumeration allow you to execute the assembly?

- A. `AssemblyBuilderAccess.Run`
- B. `AssemblyBuilderAccess.ReflectionOnly`
- C. `AssemblyBuilderAccess.RunAndSave`
- D. `AssemblyBuilderAccess.Save`

**Answer:** AC

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 44

You work as the application developer at Cer-Tech.com. Cer-Tech.com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 Windows application. You are required to asynchronously monitor the creation of new Windows processes and write the following code:

```
Dim eQuery As WqlEventQuery = New WqlEventQuery ("__InstanceCreationEvent",  
    _New TimeSpan (0, 0, 5), "TargetInstance is a ""Win32_Process""")  
Dim meWatcher As ManagementEventWatcher = New ManagementEventWatcher ()  
meWatcher.Query = eQuery
```

You are in the process of adding additional code for the asynchronous monitor to work and need to know which code segment to use.

What code segment should you use? (Each correct answer presents part of the solution. Choose TWO)

- A. meWatcher.Stop ()
- B. Dim mObj As ManagementBaseObject = meWatcher.WaitForNextEvent ()
- C. AddHandler meWatcher.EventArrived, AddressOf Process\_Created
- D. meWatcher.Start ()

**Answer:** CD

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 45

Which of the following is a class would you need to create an instance of to specify that a string should be centered when drawn?

- A. StringFormat
- B. StringAlignment
- C. FormatFlags
- D. LineAlignment



**Answer:** A

**Section:** (none)

**Explanation/Reference:**

**QUESTION 46**

Which of the following are keyed hashing algorithms? (Choose all that apply.)

- A. RIPEMD160
- B. HMACSHA1 
- C. SHA512
- D. MACTripledES 
- E. MD5

**Answer:** BD

**Section:** (none)

**Explanation/Reference:**

**QUESTION 47**

You work as the application developer at Cer-Tech.com. Cer-Tech.com uses Visual Studio.NET 2005 as its application development platform.

You are developing a .NET Framework 2.0 assembly using the code shown below:

```
Public NotInheritable Class UtilProc
Public Sub DoWork()
' Additional code to go here
End Sub
End Class
```

The code is capable of being called by a Web application or Web service. You are required to restrict the assemblies that are capable of calling the DoWork method so only assemblies signed with a specific public key should be able to call the DoWork method.

What should you do?

- A. SecurityAction.LinkDemand should be passed as a parameter to the attribute
- B. The StrongNameIdentityPermission attribute should be applied to the DoWork method



- C. `SecurityAction.InheritanceDemand` should be passed as a parameter to the attribute
- D. The `SecurityAction.Demand` should be passed as a parameter to the attribute
- E. The `GacIdentityPermission` should be applied to the `DoWork` method
- F. The `KeyContainerPermission` should be applied to the `DoWork` method

**Answer:** AB

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 48

Which permission must an assembly have to connect to a Web server?

- A. `SocketPermission`
- B. `WebPermission`
- C. `DnsPermission`
- D. `ServiceControllerPermission`

**Answer:** B

**Section:** (none)

**Explanation/Reference:**

#### QUESTION 49

Which of the following would you use within a method to throw an exception if the assembly lacked a specific privilege?

- A. `SecurityAction.Demand`
- B. `SecurityAction.Deny`
- C. `SecurityAction.Assert`
- D. `SecurityAction.RequestMinimum`

**Answer:** A

**Section:** (none)

**Explanation/Reference:**

### QUESTION 50

You work as an application developer at Cer-Tech.com. You are in the process of creating an assembly that will be used to manage file content on Cer-Tech.com's user computers.

Cer-Tech.com wants you to ensure that the users who use the assembly you are creating should not be able to access classes in your assembly if they do not have access to the local file system.

To do this, you need to add certain code fragments to your classes. What should you use? (Choose two)

- A. `[FileIOPermission (SecurityAction.RequestMinimum) ]`
- B. `FileIOPermission perm = New FileIOPermission (PermissionState.Unrestricted);`  
`Perm. Assert`
- C. `[FileIOPermission (SecurityAction.RequestOptional) ]`
- D. `FileIOPermission perm = New FileIOPermission (PermissionState.Unrestricted);`  
`Perm. Request`
- E. `[FileIOPermission (SecurityAction.Demand) ]`
- F. `FileIOPermission perm = New FileIOPermission (PermissionState.Unrestricted);`  
`Perm. Demand`

**Answer:** EF

**Section:** (none)

**Explanation/Reference:**

### QUESTION 51

You write the following code segment to call a function from the Win32 Application Programming Interface (API) by using platform invoke.

```
string personName = "N?e!";  
string msg = "welcome " + personName + "to club!";  
bool rc = User32API.MessageBox(0, msg, personName, 0);
```

You need to define a method prototype that can best marshal the string data.

Which code segment should you use?

- A. `[DllImport("user32", CharSet = CharSet.Ansi)]`  
`public static extern bool MessageBox(int h Wnd, String text,`  
`String caption, unit type);`

- B. [DllImport("user32", EntryPoint = "MessageBoxA", CharSet = CharSet.Ansi)]  
public static extern bool MessageBox(int hWnd, [MarshalAs(UnmanagedType.LPWSTR)]String text,  
[MarshalAs(UnmanagedType.LPWSTR)]  
String caption, unit type);
- C. [DllImport("user32", CharSet = CharSet.Unicode)]  
public static extern bool MessageBox(int h Wnd, String text, String caption, unit type);
- D. [DllImport("user32", EntryPoint = "MessageBoxA", CharSet = CharSet.Unicode)]  
public static extern bool MessageBox(int hWnd, [MarshalAs(UnmanagedType.LPWSTR)]String text,  
[MarshalAs(UnmanagedType.LPWSTR)]  
String caption,unit type);

**Answer: C**

**Section: (none)**

**Explanation/Reference:**

- Achtung: CharSet = CharSet.Unicode wird empfohlen, da in C# CharSet.Auto eventuell Probleme macht.
- CharSet.Ansi ist natürlich falsch (string in C# ist Unicode)

**QUESTION 52**

A fellow developer named Andy Booth has recently created an application.

The application receives confidential transaction data from Certkiller .com's clients, which it secures using the TripleDESCryptoServiceProvider class.

You are currently reviewing this application, and need to decrypt a byte array of cipher text.

What code should you use to achieve this objective?

- A. public byte [] DecryptData(byte [] cipherText, TripleDESCryptoServiceProvider secretKey){  
MemoryStream ms = new MemoryStream(cipherText);  
CryptoStream cs = new CryptoStream(ms, SecretKey, CryptoStreamMode.Read);  
byte [] data = new byte [ms.Length - 1];  
cs.Read (data, 0, data.Length);  
cs.Close ();  
ms.Close ();  
return data;  
}
- B. public byte [] DecryptData(byte [] cipherText, TripleDESCryptoServiceProvider secretKey){  
MemoryStream ms = new MemoryStream (cipherText);  
CryptoStream cs = new CryptoStream(ms, secretKey.CreateDecryptor(), CryptoStreamMode.Read);  
byte [] data = new byte [ms.Length - 1];  
cs.Read (data, 0, data.Length);  
cs.Close ();  
ms.Close ();  
return data;  
}
- C. public byte [] DecryptData(byte [] cipherText, TripleDESCryptoServiceProvider secretKey){  
MemoryStream ms = new MemoryStream (secretKey);  
CryptoStream cs = new CryptoStream(ms, secretKey.CreateDecryptor(), CryptoStreamMode.Read);  
byte [] data = ms.Decrypt (cipherText);  
cs.Read (data, 0, data.Length);  
ms.Close ();  
return data;  
}

```
D. public byte [] DecryptData(byte [] cipherText, TripleDESCryptoServiceProvider secretKey){
    CryptoStream cs = new CryptoStream (secretKey);
    byte [] data = ms.Decrypt (cipherText);
    cs.Read (data, 0, data.Length);
    ms.Close ();
    return data;
}
```

**Answer:** B

**Section:** (none)

**Explanation/Reference:**

This code instantiates a CryptoStream object, specifies the ICryptoTransform object to encrypt data, decrypts the CipherText byte array,

and returns the encrypted byte array.

The TripleDESCryptoServiceProvider class represents a managed cryptographic provider of the Data Encryption Standard (DES) symmetric algorithm.

The DES symmetric algorithm is commonly used for data confidentiality, and it supports 64-bit keys.

When you instantiate a TripleDESCryptoServiceProvider object, a secret key for encryption and an initialization vector (IV) are created.

Because the same key and IV are needed for encryption and decryption, the CreateEncryptor and CreateDecryptor methods

generate the appropriate ICryptoTransform object to alter the data.

Incorrect Answers:

A: You should not use the code that does not invoke the CreateDecryptor method because this is required when instantiating a CryptoStream object.

C, D: You should not use the code fragments that invoke the Decrypt method because no such method exists in the CryptoStream class.

· Tipp:

· CryptoStream cs = new CryptoStream(ms, secretKey.CreateDecryptor(), CryptoStreamMode.Read);

· ist der einzige korrekte Konstruktor (C wurde ausgebessert).

· Methode Read und nicht Decrypt - schon gar nicht von MemoryStream !!!

· public CryptoStream (Stream stream, ICryptoTransform transform, CryptoStreamMode mode)

· transform: Die kryptografische Transformation, die für den Stream ausgeführt werden soll. (SecretKey.CreateEncryptor())

· die verschiedenen XXXCryptoServiceProvider haben alle eine Methode CreateEncryptor bzw. CreateDecryptor.

**QUESTION 53**

You are developing an application to perform mathematical calculations.

You develop a class named CalculationValues.

You write a procedure named PerformCalculation that operates on an instance of the class.

You need to ensure that the user interface of the application continues to respond while calculations are being performed.

You need to write a code segment that calls the PerformCalculation procedure to achieve this goal.

Which code segment should you use?

- A. 

```
private void PerformCalculation() {...}
private void DoWork(){
    CalculationValues myValue = new CalculationValues();
    Thread newThread = new Thread(new ThreadStart(performCalculation));
    newThread.Start(myValues);
}
```
- B. 

```
private void PerformCalculation() {...}
private void DoWork(){
    CalculationValues myValue = new CalculationValues();
    ThreadStart delStart = new ThreadStart(PerformCalculation);
    Thread newThread = new Thread(delStart);
    if (newThread.IsAlive) {newThread.Start(myValue);}
}
```
- C. 

```
private void PerformCalculation (CalculationValues values) {...}
private void DoWork(){
    CalculationValues myValue = new CalculationValues();
    Application.DoEvents();
    PerformCalculation(myValue);
    Application.DoEvents();
}
```
- D. 

```
private void PerformCalculation(object values) {...}
private void DoWork(){
    CalculationValues myValues = new CalculationValues();
    Thread newThread = new Thread(new ParameterizedThreadStart(PerformCalculation));
    newThread.Start(myValues);
}
```

**Answer:** D

**Section:** (none)

**Explanation/Reference:**

Explanation: It is a requirement that the UI continues to respond, hence PerformCalculation should execute in a separate thread.

PerformCalculation requires a parameter hence you should use the ParameterizedThreadStart delegate.

A& B attempt to supply a parameter to the ThreadStart delegate. This is not possible.

C Does not run in a new thread and hence may leave the UI unresponsive.

· Warum ist es sicher, dass Parameter benötigt werden (geht aus der Angabe nicht hervor) !!!